

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/009727

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G01D11/24 G01D11/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G01D B60Q G12B H05K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	US 5 603 283 A (OWEN MARVIN L) 18 February 1997 (1997-02-18) column 1, line 42 - column 2, line 4 column 2, line 39 - line 58 column 3, line 1 - line 22 column 4, line 6 - line 12; figure 2	1,2,5,6, 8,10-12
Y	-----	3,4,7,13
X	DE 199 38 336 A (TRW AUTOMOTIVE ELECTRON & COMP) 15 March 2001 (2001-03-15) column 3, line 13 - line 29 column 4, line 23 - line 51 figures 2,4	1,5,7, 11,12
Y	----- -/--	3,4,7,13

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- * & * document member of the same patent family

Date of the actual completion of the international search

10 March 2005

Date of mailing of the international search report

16/03/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Keita, M

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/009727

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 195 38 547 A (VDO SCHINDLING) 24 April 1997 (1997-04-24) column 3, line 17 - column 4, line 9; figure 2 -----	1-3,6,7, 11-13
A	EP 1 077 363 A (MANNESMANN VDO AG) 21 February 2001 (2001-02-21) column 2, line 38 - column 3, line 13 -----	1,9
A	US 5 080 035 A (MACMANUS ET AL) 14 January 1992 (1992-01-14) column 1, line 11 - line 42 column 2, line 4 - line 42 figures -----	8-10

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/009727

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5603283	A	18-02-1997	NONE	
DE 19938336	A	15-03-2001	DE 19938336 A1	15-03-2001
DE 19538547	A	24-04-1997	DE 19538547 A1	24-04-1997
EP 1077363	A	21-02-2001	DE 19939004 A1	22-02-2001
			BR 0003616 A	03-04-2001
			EP 1077363 A2	21-02-2001
US 5080035	A	14-01-1992	NONE	